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> s of

Service

Intermountain Region

Ogden, Utah

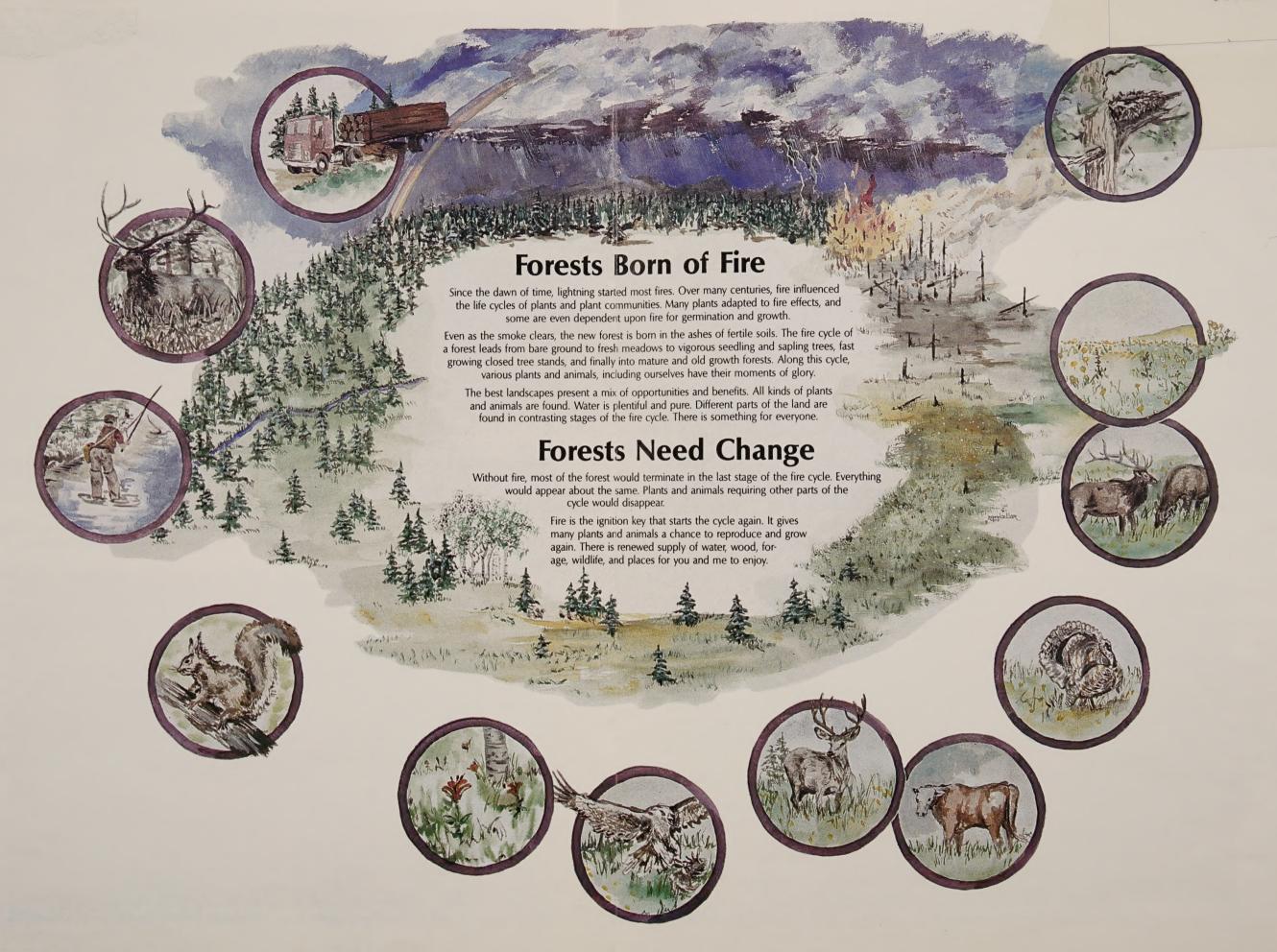
Boise National Forest



Fire and the Changing Land

Fires were part of the landscape long before European man appeared in North America. Some were started by Indians accidentally and others were set deliberately to improve hunting or to provide lush feed for livestock.







Fire and Change

Like mankind, natural vegetation changes and matures. In the Intermountain Region, fire has played its role in the changing land for over 12,000 years. Sometimes long intervals between fires caused buildups of insects and disease. At other times fires were disasters. Still other fires were essentially beneficial, maintaining healthy grasslands, brushlands, or forests. Centuries ago all kinds of fires roamed over a land that was big and relatively empty of people. It didn't make much difference that there were different kinds of fire. Fire simply played its role in renewing cycles of life until...

...Man Learned to Control It

About 850 wildfires occur annually in the Intermountain Region. Modern suppression technology keeps most of these within 1 to 10 acres, but every once in a while a big one "gets away" and becomes destructive. To prevent this, we are becoming increasingly skilled at using fire itself to keep down the levels of natural fuels that would otherwise cause destructive wildfires. As we learned to control fires, we rediscovered what many prehistoric people already knew—that we could also use fire for many beneficial purposes.

Fires Do Good Things Also

Fires return nutrients to the soil and encourage the growth of the kinds of food plants that attract animals and birds. Without fire, the forest would remain in the last stage of the fire cycle—the older forest—for a long time. Plants and animals requiring nutrients and vegetation from other parts of the cycle would disappear.

Fires reduce the forest "timberbox"—the flammable woody fuel which builds up into a catastrophic fire hazard. Reducing the "timberbox" also allows wildlife easier access to the forest.

Insects and diseases are controlled by fire, maintaining healthy stands of trees.

Fire helps reduce the hazard of catastrophic fire, maintains the landscape, and encourages a healthy ecosystem.

Although Plants Grow Back After a Wildfire...

land managers have learned that fire applied to the land in a controlled manner minimizes tree and soil damage.

Soon after a prescribed fire cools, new growth begins...

- sunlight reaches the ground to nourish new plants and dormant seed.
- springs begin to flow.
- game and birds return to the habitat.
- the fire cycle is complete.
- nature presents itself in beautiful living color.
- livestock forage increases.



Two Kinds of Fire

When Viewed As An Enemy...

dangerous or likely to become destructive—we use the word "wildfire." Wildfire is any wildland fire that requires a suppression response. That's bureaucratese for "Let's put it out!"

When Viewed as Helpful...

a means for producing the kinds of vegetation and landscapes we want—we use the phrase "prescribed fire." A prescribed fire is the right kind of fire, in the right place, at the right time. It is doing good things for us.



No Fire



Wildfire



Prescribed Fire



"Fire and people do in this agree, They both good servants, both ill masters be."

> Fulke Greville Inquisition Upon Flames

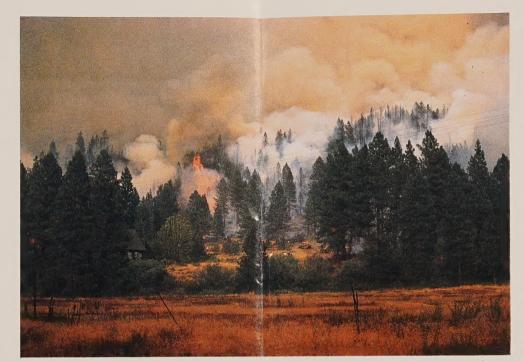
The Challenge...

"Our present job is to conserve the benefit (to resources) and minimize the damage to the watershed—in so far as technical skill and good administration can do it."

Aldo Leopold



Fire and water are linked together in well-tended and sustainable landscapes.



All fires produce smoke. The amount of smoke produced and the length of time it is present can be reduced through various smoke management practices during prescribed burning. We now recognize that, except for the recent past, the crystal-clear skies we associate with our mountain vistas may have been rare during the fire season. Burning prescriptions provide for rapid smoke dispersion and reduction of lingering haze.

...Leadership

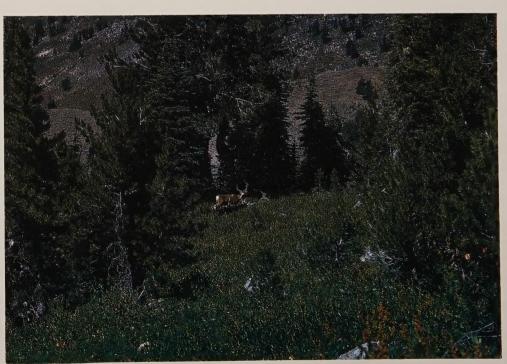
Eighty years of experience has made the Forest Service an international leader in the use of fire in management of natural resources.



Wildflowers and openings contribute to high mountain scenery. Without fire, trees can close up these vistas in a relatively few years.



Fires, when properly managed, can create both pleasing and productive vegetation mosaics.



Many kinds of wildlife and domestic livestock use the meadows and meadow edges created or maintained by fire.





Cross section of a pine stem reveals a record of 13 fires between 1815 and 1907. Fires burned around this tree an average of every 7 years during this 93-year period. (Lab of Tree-Ring Research, Univ. of Arizona.)



Nearly everywhere was evidence of past fires. Fire burning around the base of tree stems charred portions of the stem from time to time leaving a record in the tree rings of the frequency of fire.

A "catfaced" stem of ponderosa pine records a story of fires.

